

Amendments to the claims,
Listing of all claims pursuant to 37 CFR 1.121(c)

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A system ~~stored on computer memory~~, which ~~when executed by a processor~~ determines subscribers to which a published item of data is to be replicated, the system comprising:

a computer having a processor and memory;

an interface module which receives user input of lists ~~of from~~ a plurality of subscribers, each list specifying items of data to be replicated to a given subscriber; wherein said lists include wildcard information and negation information;

a build module which builds an index based on the lists ~~of from~~ the plurality of subscribers, the index including an entry for each item of data to be replicated and a bitmap string associated with each entry representing subscribers to containing entries indicating subscribers for each item of data specified in the lists, with at least one entry including a wildcard, and one entry including a default list of subscribers for items of data not matching any of the other entries, wherein the bitmap string includes one bit for each subscriber; and

a resolution module which receives a published item of data, ~~and~~ determines subscribers to which the published item is to be replicated based on the index, and replicates enabling said published item ~~to be replicated~~ to subscribers, ~~for display to users;~~ wherein time for determining subscribers to the published items does not depend on number of subscribers.

2. (Currently amended) The system of claim 1, wherein ~~a at least one of the plurality of subscribers~~ comprises a replicate database.

3. (Currently amended) The system of claim 1, wherein ~~a the~~ published item of data comprises an item of data published by a primary database for replication.

4. (Currently amended) The system of claim 1, wherein the lists ~~of from~~ the

plurality of subscribers include a list having negation information specifying at least one item of data not to be replicated to a particular subscriber.

5. (Currently amended) The system of claim 1, wherein the lists ~~of~~ from the plurality of subscribers include a list comprising a negation set indicating that all data other than items specified on the list should be replicated to a particular subscriber.

6. (Original) The system of claim 1, wherein the interface module receives at least one string identifying data to be replicated to a subscriber.

7. (Currently amended) The system of claim 6, wherein the index comprises a hash table and the build module builds the hash table index based, at least in part, on said at least one string.

8. (Canceled)

9. (Currently amended) The system of claim 1, wherein the index built by the build module comprises ~~builds~~ a hash table of entries based on the lists ~~of~~ from the plurality of subscribers.

10-11. (Canceled)

12. (Previously presented) The system of claim 1, wherein the build module builds at least one entry including a wildcard providing that all items of data of a certain type are to be replicated to subscribers of said at least one entry.

13. (Original) The system of claim 1, wherein the build module builds a bitmap string representing the default list of subscribers.

14. (Original) The system of claim 13, wherein the build module adds each subscriber having a list comprising a whole set to the bitmap string representing the

default list of subscribers.

15. (Original) The system of claim 13, wherein the build module adds each subscriber having a list comprising a negation set to the bitmap string representing the default list of subscribers.

16. (Original) The system of claim 1, wherein the resolution module generates a hashed value based on at least one string identifying the published item.

17. (Original) The system of claim 16, wherein the resolution module searches for the hashed value in the index.

18. (Previously presented) The system of claim 17, wherein the resolution module determines subscribers to which the published item should be replicated based upon at least one entry in the index including the hashed value when the hashed value is found in the index.

19. (Previously presented) The system of claim 17, wherein the resolution module determines subscribers to which the published item should be replicated based upon the default list when the hashed value is not found in the index.

20. (Original) The system of claim 16, wherein the resolution module receives a plurality of strings identifying the published item and substitutes a wildcard for one of the strings to search for matching entries in the index which include a wildcard.

21. (Original) The system of claim 1, wherein the resolution module determines subscribers to which the published item should be replicated based upon the default list of subscribers for published items without matching entries in the index.

22. (Original) The system of claim 1, wherein the build module removes a subscriber from the index in response to a request to remove a subscriber.

23. (Currently amended) A method which determines subscribers to which a published item of data is to be replicated, the method comprising:

receiving lists of from a plurality of subscribers, each list specifying items of data to be replicated to a given subscriber; wherein said lists include wildcard information and negation information;

building an index based on said lists of from the plurality of subscribers, the index including any entry for each item of data to be replicated and a bitmap string associated with each entry containing entries identifying subscribers to which each item of data specified in said lists should be replicated, at least one entry including a wildcard, and one entry including a default list identifying subscribers to published items of data not matching any of the other index entries, wherein the bitmap string includes one bit for each subscriber;

given a published item of data, determining in constant time whether the published item matches at least one entry in the index; wherein time for determining subscribers to the published item does not depend on number of subscribers;

if the published item matches at least one entry in the index, generating a set of subscribers to which the published item is to be replicated based on the subscribers associated with said at least one entry; and

otherwise, returning the default list of subscribers to which the published item is to be replicated.

24. (Original) The method of claim 23, wherein a subscriber comprises a replicate database.

25. (Original) The method of claim 23, wherein a published item of data comprises an item of data published by a primary database for replication.

26. (Original) The method of claim 23, wherein said receiving step includes specifying items of data not to be replicated to a subscriber.

27. (Original) The method of claim 23, wherein said receiving step includes receiving a list comprising a negation set indicating that all data other than items specified on the list should be replicated to a subscriber.

28. (Original) The method of claim 23, wherein said receiving step includes receiving at least one string identifying data to be replicated to a subscriber.

29. (Currently amended) The method of claim 28, wherein said index comprises a hash table and said building step includes building a the hash table based on said at least one string.

30. (Original) The method of claim 29, wherein said step of building a hash table includes building a bitmap string for each entry representing subscribers to an item of data.

31. (Currently amended) The method of claim 23, wherein said index comprises a hash table and said building step includes building a hash table of entries.

32.-33. (Canceled)

34. (Currently amended) The method of claim 23~~claim 32~~, wherein said step of generating a bitmap string includes removing a subscriber from the bitmap string representing subscribers to an item of data when the subscriber has specified the item of data as an excluded item in a negation set.

35. (Previously presented) The method of claim 23, wherein said building step includes building a bitmap string representing the default list of subscribers.

36. (Original) The method of claim 35, wherein said step of building a bitmap string for representing the default list of subscribers includes adding each subscriber having a list comprising a whole set.

37. (Previously presented) The method of claim 35, wherein said step of building a bitmap string representing the default list of subscribers includes adding each subscriber having a list comprising a negation set.

38. (Previously presented) The method of claim 23, wherein said building step includes building at least one entry including a wildcard indicating all items of data of a certain type should be replicated to a subscriber.

39. (Previously presented) The method of claim 38, wherein said determining step includes receiving a plurality of strings identifying the published item and substituting a wildcard for one of the strings to search for matching entries in the index which include a wildcard.

40. (Previously presented) The method of claim 23, wherein said determining step includes generating a hashed value based on at least one string identifying the published item.

41. (Previously presented) The method of claim 40, wherein said determining step includes searching for the hashed value in the index.

42. (Original) The method of claim 23, wherein said determining step includes building a list of subscribers based upon a plurality of matching entries.

43. (Currently amended) A computer-readable medium having processor-executable instructions which, when executed by a processor, perform the method of claim 23.

44. (Canceled)